

JACOB W. BOWMAN

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EDUCATION

Ph.D. Biology – University of Idaho, Moscow, ID 2024 – Present
Advisors: Paul Hohenlohe and James Nagler

M.S. Zoology – Southern Illinois University, Carbondale, IL 2021 – 2024
Advisor: James Garvey

B.S. Biology – The College of Idaho, Caldwell, ID 2015 – 2019
Minors in philosophy, history, and health professions studies

PROFESSIONAL APPOINTMENTS

Researcher – Aquaculture Coordinator Aug. 2023 – Jan. 2024
Southern Illinois University, Carbondale, IL Supervisor: James Garvey

- Designed, built, and maintained recirculating aquaculture systems and mesocosms
- Organized and performed fish collection, tagging, and assessment in large river systems
- Produced and implemented wetlab and field animal handling and husbandry protocols

Hollings Scholar Intern Jul. 2017 – Feb. 2019
NOAA Northwest Fisheries Science Center, Seattle, WA Supervisor: Peter Kiffney

- Enumerated, identified, and sorted aquatic macroinvertebrates from field samples
- Performed snorkeling surveys to evaluate native fish populations in the Cedar River, WA
- Recorded river and riparian habitat metrics to inform aquatic species associations

Research Technician May 2017 – Oct. 2017
The College of Idaho, Caldwell, ID Supervisor: Jaime Goode

- Developed new method to monitor floodplain sediment movement following wildfire
- Mapped river and floodplain habitat with drone imagery and total station surveys
- Constructed structure from motion (SFM) mosaics to quantify changing instream habitat

PUBLICATIONS

Dissinger A., **Bowman J.**, Molinari GS, Kwasek K. Effects of Oregano (*Origanum vulgare*) Essential Oil Supplementation on Growth Performance of Zebrafish (*Danio rerio*) Fed a High-Inclusion Soybean Meal Diet. Zebrafish. 2024 Jul 23.

SOFTWARE AND SKILLS

- Linux, Python, R – proficient in various statistical and bioinformatic software pipelines
- Laboratory techniques relating to DNA extraction and RADseq library preparation
- Excellent verbal and written communication skills

TEACHING EXPERIENCE

Teaching Assistant – Cells and the Evolution of Life

2024 – Present

University of Idaho, Moscow, ID

- Instruct two undergraduate laboratory sections of ~24 students per semester
- Advise students of common laboratory techniques and the underlying basis in biology

OUTREACH AND VOLUNTEER EXPERIENCE

President – American Fisheries Society SIU Student Subunit

2022 – 2023

Southern Illinois University, Carbondale, IL

- Organized public outreach and community events for fisheries students
- Led workshops and fish sampling trips to demonstrate fish management techniques

Academic Support Center Tutor

2018 – 2019

The College of Idaho, Caldwell, ID

- Advised College of Idaho students in math and biology – appointed to the role by faculty

Student Athletic Advisory Committee

2017 – 2019

The College of Idaho, Caldwell, ID

- Managed outreach event schedules and budgets for College of Idaho athletes

SELECTED PRESENTATIONS

Bowman, J., Coulter, D., Coulter, A., Garvey, J (2022). Mediation of nutrient availability by invasive Silver Carp in the Illinois River. Poster presentation; Illinois AFS Meeting; Effingham, IL.

Bowman, J., Kiffney, P. (2019). Variability in invertebrate prey: consequences for stream-rearing salmon in the Cedar River, WA. Poster presentation; ASLO Aquatic Sciences Meeting; San Juan, PR.

Bowman, J., Truksa, T., Goode, J. (2017). Application of structure from motion (SfM) photogrammetry to quantify sediment mobilization following wildfire blowdown events. Oral presentation given at the annual Geological Society of America Conference in Seattle, WA. Poster presentation; Murdock Charitable Trust Undergraduate Conference; Spokane, WA.

SELECTED HONORS AND AWARDS

- NOAA Hollings Scholarship – \$9,500/year 2018 – 2019
- Gipson Honors Fellow 2015 – 2019
- NAIA Academic All-District – Baseball 2019
- Eric Yensen Ecology Award 2018